BOXBORO
systems

WorldSID ATD – 50th Male RibEye™

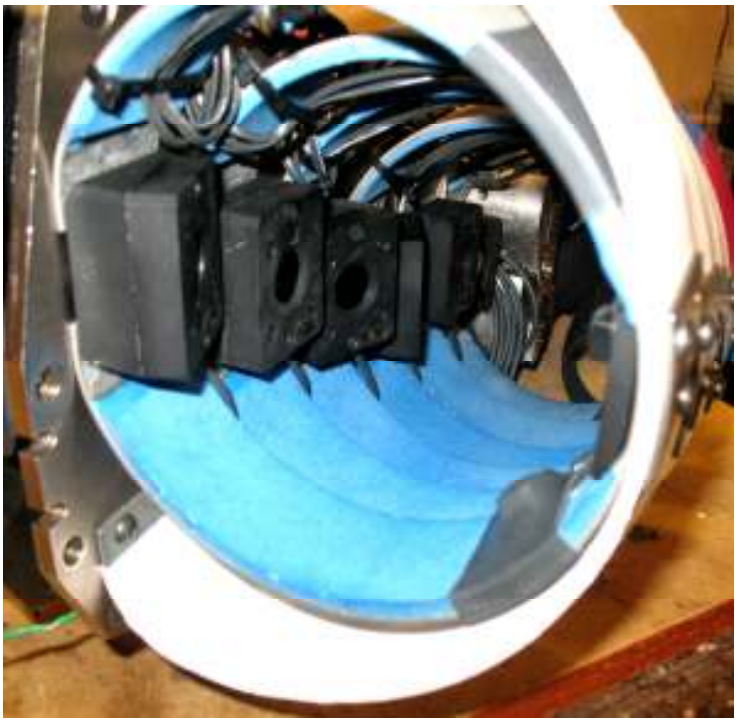
A Better Way to Measure Thorax Displacement

RibEye Advantages

- Multiple point measurement:
  18 points @ 10 kHz sample rate,
  captures linear and oblique loads
- Six-LED version also available
- Multiple-axis: measures X, Y and Z positions for each LED
- Non-contact: no mechanical linkages between spine and ribs
- Mounts to existing holes in spine and ribs – no modifications to dummy
- Interfaces with existing data acquisition systems: open protocol for RibEye operation by DAS software
- Meets ISO 6487-2000 and SAE J211 specifications

Measurement Capabilities

- Accuracy
  For Y and Z data:
  ± 0.2 mm typical
  ± 1 mm max. error
  For X data, max. error < 1.5 mm
- Range
  X axis: ± 130 mm fore/aft
  Y axis: 85 mm chest compression
  Z axis: 80 mm up, 50 mm down
- Acquisition time @ 10 kHz sample rate
  25,000 ms (25 seconds) in RAM
  1.7 seconds in flash memory
- Temperature range
  Operating, –18°-38°C (0°-100°F)
  Max. accuracy, 18°-24°C (65°-75°F)



RibEye Sensors

RibEye LEDs

More information

- PC-based control software exports data in Diadem, ISO, or CSV formats
- Power requirement:
  12-36 Volts DC
  8 W (idle)
  12 W (data acquisition)
  20 W (max.)
- U.S. Patent Number 7508530
- For more data, please see our website literature, including user's manuals and technical conference papers about third-party testing using the RibEye

www.boxborosystems.com